

KURODA et al.
Serial No. 09/885,005
Amendment Accompanying Request for Continued Examination

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

Claim 1 (Currently Amended): An information outputting apparatus comprising:
an outputting device for outputting main information including a plurality of partial information and order recording position information showing ~~an order of recording or reproducing at the time of recording or reproducing, each of the order information being added to each of the partial information~~ a recording position of the partial information on a recording medium on which the partial information is to be recorded,

wherein the outputting device cyclically outputs the whole of the main information, and
wherein in each session of outputting the whole of the main information, the outputting device sequentially outputs the partial information and the ~~order recording position~~ information added to the partial information in accordance with the an order of recording or reproducing, and
wherein the recording position information has a predetermined relationship with address information set in advance in the recording medium.

Claim 2 (Canceled).

Claim 3 (Currently Amended): The information outputting apparatus according to claim 1, wherein the said main information is compressed by a variable bit rate.

Claims 4 and 5 (Canceled).

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Claim 6 (Currently Amended): The information outputting apparatus according to claim 1, wherein the said main information includes reproduction controlling information for controlling a reproduction manner of the said main information recorded in the a recording medium, and the outputting device sequentially outputs the reproduction controlling information, the partial information, and the ~~order~~ recording position information ~~added to the partial information in accordance with the order of recording or reproducing.~~

Claim 7 (Currently Amended): The information outputting apparatus according to claim 1, wherein the said main information includes regulating information for regulating the number of times for copying after the said main information is recorded in the said recording medium, and

the information outputting apparatus further comprises a changing device for generating changing recording position ~~order~~ information by changing each of the recording position ~~said order~~ information in association with the regulating information, wherein

the said outputting device sequentially outputs at least the partial information and the said changing recording position ~~order~~ information, ~~which is added to the partial information and is generated by the changing device, in accordance with the changing order information.~~

Claim 8 (Currently Amended): The information outputting apparatus according to claim 1, wherein the said partial information comprises an information sector, and

the recording position ~~said order~~ information is any one of sector address information in association with ~~said~~ respective information sectors and relative information which is related to the said sector address information.

Claim 9 (Currently Amended). An information recording apparatus for recording main information ~~and order information~~, which ~~is~~ are outputted from an information outputting apparatus, in a recording medium, wherein the information outputting apparatus comprises: an

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outputting device for outputting the said main information including a plurality of partial information and ~~order recording position~~ information showing ~~order of recording or reproducing at the time of recording or reproducing~~ a recording position of the partial information on a recording medium on which the partial information is to be recorded, ~~each of the order information being added to each of the partial information~~, wherein the outputting device cyclically outputs the whole of the main information, and in each session of outputting the whole of the main information, the outputting device sequentially outputs the partial information and ~~the order recording position~~ information added to ~~the partial information~~ in accordance with ~~the~~ an order of recording or reproducing,

wherein the said information recording apparatus comprises:

an obtaining device for obtaining the said outputted partial information and recording position ~~order~~ information in the said main information; and

a recording device for recording the said obtained partial information in the said recording medium by using the said obtained order recording position information in ~~the order of~~ obtaining,

wherein the said recording device determines whether the whole of one main information is completely recorded or not in accordance with the said recorded order recording position information, and

when the said recording device determines that the whole of the said one main information is not completely recorded in a session, the said recording device records remaining partial information and ~~order recording position~~ information in the said one main information in another session,

wherein the recording position information has a predetermined relationship with address information set in advance in the recording medium.

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Claim 10 (Currently Amended): The information recording apparatus according to claim 9, wherein address information showing a recording position on the said recording medium is recorded in advance on the said recording medium, and

the said recording device records the said partial information in association with the recording position said-order information at on a recording position on the said recording medium, which is indicated by the said address information associated with the said obtained recording position order information.

Claim 11 (Currently Amended). The information recording apparatus according to claim 9, wherein the said partial information comprises an information sector, and

the recording position said-order information is any one of sector address information in association with said respective information sectors and relative information which is related to the said sector address information.

Claim 12 (Currently Amended): An information outputting method comprising:
an outputting process for outputting main information including a plurality of partial information and order recording position information showing order of recording or reproducing at the time of recording or reproducing a recording position of the partial information on a recording medium on which the partial information is to be recorded, each of the order information being added to each of the partial information,

wherein the outputting process cyclically outputs the whole of the main information, and

in each session of outputting the whole of the main information, the outputting process sequentially outputs the partial information and the order recording position information added to the partial information in accordance with the an order of recording or reproducing,

wherein the recording position information has a predetermined relationship with address information set in advance in the recording medium.

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Claim 13 (Currently Amended): The information outputting method according to claim 12, further comprising recording the said outputted main information in a recording medium by using the said outputted order recording position information so that the said main information is reproduced on the basis of the recording position said order information.

Claim 14 (Currently Amended): The information outputting method according to claim 12, wherein the said main information is compressed by a variable bit rate.

Claim 15 (Canceled).

Claim 16 (Currently Amended): The information outputting method according to claim 12, wherein the said main information includes regulating information for regulating the number of times for copying after the said main information is recorded in the said recording medium; and

the said method further comprises a changing process for generating changing recording position order information by changing each of the recording position said order information in association with the regulating information, wherein

the said outputting process sequentially outputs at least the partial information and the said changing recording position order information, which is added to the partial information and is generated by the changing process, in accordance with the changing order information.

Claim 17 (Currently Amended): The information outputting method according to claim 12, wherein the said partial information comprises an information sector, and

the recording position said order information is any one of sector address information in association with said respective information sectors and relative information which is related to the said sector address information.

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Claim 18 (Currently Amended). An information recording method for recording main information ~~and order information~~, which ~~is~~ ~~are~~ outputted by an information outputting method, wherein the said information outputting method comprises: an outputting process for outputting the said main information including a plurality of partial information and ~~order~~ recording position information showing ~~order of recording or reproducing at the time of recording or reproducing~~ a recording position of the partial information on a recording medium on which the partial information is to be recorded, ~~each of the order information being added to each of the partial information~~, wherein the outputting process cyclically outputs the whole of the main information, and in each session of outputting the whole of the main information, the outputting device sequentially outputs the partial information and the ~~order~~ recording position information ~~added to the partial information~~ in accordance with ~~the~~ an order of recording or reproducing,

wherein the recording method comprises

obtaining the said outputted partial information and ~~order~~ recording position information in the said main information; and

recording the said obtained partial information in ~~a~~ the recording medium by using the said obtained ~~order~~ recording position information ~~in the order of obtaining~~,

wherein the method further comprises the process of determining whether the whole of one main information is completely recorded or not in accordance with the said recorded ~~order~~ recording position information, and

when the process of determining determines that the whole of the said one main information is not completely recorded in a session, the process of recording records remaining partial information and ~~order~~ recording position information in the said one main information in another session.

wherein the recording position information has a predetermined relationship with address information set in advance in the recording medium.

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Claim 19 (Currently Amended): The information recording method according to claim 18, wherein address information showing a recording position on the said recording medium is recorded in advance on the said recording medium, and

the said partial information in association with the recording position said order information is recorded at on a recording position on the said recording medium, which is indicated by the said address information associated with the said obtained order recording position information, in the said recording process.

Claim 20 (Currently Amended): The information recording method according to claim 18, wherein the said partial information comprises an information sector, and

the recording position said order information is any one of sector address information in association with said respective information sectors and relative information which is related to the said sector address information.

Claim 21 (Currently Amended). An information recording medium, in which an information outputting controlling program is recorded so as to be read by a computer included in an information outputting apparatus, the program making the computer function as:

an outputting device for outputting main information including a plurality of partial information and order recording position information showing order of recording or reproducing at the time of recording or reproducing a recording position of the partial information on a recording medium on which the partial information is to be recorded, each of the order information being added to each of the partial information, wherein the outputting device cyclically outputs the whole of the main information, and in each session of outputting the whole of the main information, the outputting device sequentially outputs the partial information and the order recording position information added to the partial information in accordance with the an order of recording or reproducing.

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wherein the recording position information has a predetermined relationship with address information set in advance in the recording medium.

Claim 22 (Canceled).

Claim 23 (Currently Amended): The information recording medium according to claim 21, wherein the said main information is compressed by a variable bit rate.

Claim 24 (Canceled).

Claim 25 (Currently Amended): The information recording medium according to claim 21, wherein the said main information includes regulating information for regulating the number of times for copying after the said main information is recorded in the said recording medium, and

the said program makes the said computer further function as: a changing device for generating a changing recording position order information by changing each of the recording position said order information in association with the regulating information and for sequentially outputting at least the partial information and the said changing recording position order information, ~~which is added to the partial information and is generated by the changing device, in accordance with the changing order information.~~

Claim 26 (Currently Amended): The information recording medium according to claim 21, wherein address information showing a recording position on the said recording medium is recorded in advance on the said recording medium, and

the said partial information in association with the recording position said order information is recorded ~~at on~~ a recording position on the said recording medium, which is

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indicated by the said address information associated with the said obtained ~~order~~ recording position information, in the said recording process.

Claim 27 (Currently Amended): An information recording medium in which an information recording controlling program is recorded so as to be read by a computer included in a recording controlling apparatus, wherein the said recording controlling apparatus records main information ~~and order information~~, which is ~~are~~ outputted from an information outputting apparatus, in a recording medium, wherein the information outputting apparatus comprises: an outputting device for outputting the said main information including a plurality of partial information and ~~order recording position~~ information showing ~~order of recording or reproducing at the time of recording or reproducing a recording position of the partial information on a recording medium on which the partial information is to be recorded, each of the order information being added to each of the partial information~~, wherein the outputting device cyclically outputs the whole of the main information, and in each session of outputting the whole of the main information, the outputting device sequentially outputs the partial information and the ~~order recording position~~ information added to the partial information in accordance with the ~~an~~ order of recording or reproducing,

wherein the said program makes the computer function as:

an obtaining device for obtaining the said outputted partial information and ~~order recording position~~ information in the said main information; and

a recording device for recording the said obtained partial information in the said recording medium by using the said obtained ~~order recording position~~ information ~~in the order of obtaining~~,

wherein the said recording device determines whether the whole of one main information is completely recorded or not in accordance with the said recorded ~~order recording position~~ information, and

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when the said recording device determines that the whole of the said one main information is not completely recorded in a session, the said recording device records remaining partial information and ~~order~~ recording position information in the said one main information in another session,

wherein the recording position information has a predetermined relationship with address information set in advance in the recording medium.

Claim 28 (Currently Amended): The information recording medium according to claim 27, wherein address information showing a recording position on said recording medium is recorded in advance on the said recording medium, and

the said recording device records the said partial information in association with the recording position ~~said-order~~ information at ~~on~~ a recording position on the said recording medium, which is indicated by the said address information associated with the said obtained ~~order~~ recording position information.

Claim 29 (Currently Amended): The information recording medium according to claim 27, wherein the said partial information comprises an information sector, and

the recording position ~~said-order~~ information is any one of sector address information in association with ~~said~~ respective information sectors and relative information which is related to the said sector address information.

Claim 30 (Currently amended): An information ~~outputting/recording~~ outputting ~~recording~~ system comprising:

(a) an information outputting apparatus comprising: an outputting device for outputting main information including a plurality of partial information and ~~order~~ recording position information showing ~~order of recording or reproducing at the time of recording or reproducing~~ a recording position of the partial information on a recording medium on which the

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~~partial information is to be recorded, each of the order information being added to each of the partial information;~~ wherein the outputting device cyclically outputs the whole of the main information, and in each session of outputting the whole of the main information, the outputting device sequentially outputs the partial information and the ~~order~~ recording position information added to the ~~partial information~~ in accordance with ~~the~~ an order of recording or reproducing; and

(b) the said information recording apparatus comprising: an obtaining device for obtaining the said outputted partial information and ~~order~~ recording position information in the said main information; and a recording device for recording the said obtained partial information in the said recording medium in ~~the order of obtaining~~ by using the said obtained ~~order~~ recording position information,

wherein the said recording device determines whether the whole of one main information is completely recorded or not in accordance with the said recorded ~~order~~ recording position information, and

when the said recording device determines that the whole of the said one main information is not completely recorded in a session, the said recording device records remaining partial information and ~~order~~ recording position information in the said one main information in another session,

wherein the recording position information has a predetermined relationship with address information set in advance in the recording medium.

Claims 31 and 32 (Canceled).

Claim 33 (Currently Amended): An output apparatus for outputting contents that are distributed to a recording apparatus, the output apparatus comprising:

an outputting section for repeatedly outputting an entire information unit comprising a plurality of information pieces, each information piece being output with associated ~~order~~

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recording position information indicative of that information piece's recording position on a recording medium on which the information pieces are to be recorded ~~position in a recording/reproducing order of the information pieces~~; and

a transmitting section for transmitting the information pieces and associated recording position information to a recording apparatus for recording the information pieces onto a the recording medium in accordance with the ~~order~~ recording position information,

wherein the recording position information has a predetermined relationship with address information set in advance in the recording medium.

Claim 34 (Canceled).

Claim 35 (Previously Presented): The output apparatus according to claim 33, wherein the information pieces are copy-controlled.

Claim 36 (Currently Amended): A recording apparatus for recording contents that are distributed by an output apparatus, the recording apparatus comprising:

a receiving section for receiving information pieces of an entire information unit repeatedly transmitted by the output apparatus, each information piece having associated recording position information indicative of that information piece's recording position on a recording medium on which the information pieces are to be recorded ~~position in a recording/reproducing order of the information pieces~~; and

a recording section for recording the received information pieces onto a the recording medium, wherein the recording section uses the ~~order~~ recording position information so that recording of the information pieces onto the recording medium can begin even if an information piece initially received by the receiving section is not the first information piece in ~~the~~ a recording/reproducing order and so that recording of the information pieces onto the recording

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medium can be completed during a subsequent one of the repeated transmissions of the entire information unit by the output apparatus,

wherein the recording position information has a predetermined relationship with address information set in advance in the recording medium.

Claim 37 (Currently Amended): The recording apparatus according to claim 36, wherein the recording section records the information pieces onto the recording medium so that the first information piece in the recording/reproducing order is recorded at the beginning of a the data area of the recording medium.

Claim 38 (Currently Amended): The recording apparatus according to claim 36, wherein the recording section records the information pieces onto the recording medium so that the first information received by the receiving section is recorded at the beginning of a the data area of the recording medium.

Claim 39 (New): The recording apparatus according to claim 36, wherein the recording position information for each information piece comprises sector address information specifying a sector on the recording medium at which that information piece is to be recorded.

Claim 40 (New): The recording apparatus according to claim 36, wherein the receiving section is configured to receive information pieces communicated over a wide area network.

Claim 41 (New): The recording apparatus according to claim 36, wherein the recording section is configured to record the received information pieces onto an optical disk.

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Claim 42 (New): The information outputting apparatus according to claim 1, wherein each of the recording position information is added to each of the partial information.

Claim 43 (New): The information recording apparatus according to claim 9, wherein each of the recording position information is added to each of the partial information.

Claim 44 (New): The information outputting method according to claim 12, wherein each of the recording position information is added to each of the partial information.

Claim 45 (New): The information recording method according to claim 18, wherein each of the recording position information is added to each of the partial information.

Claim 46 (New): The information recording medium according to claim 21, wherein each of the recording position information is added to each of the partial information.

Claim 47 (New): The information recording medium according to claim 27, wherein each of the recording position information is added to each of the partial information.

Claim 48 (New): The information outputting/recording system according to claim 30, wherein each of the recording position information is added to each of the partial information.